

Gearing Dodge Quantis® Ultra Kleen®

Stainless steel for ultimate washdown protection

The Dodge Quantis Ultra Kleen reducer is a total stainless steel solution engineered to provide ultimate reliability in harsh washdown food and beverage applications. With features designed around food industry sanitation standards, this reducer offers the highest level of performance in the most severe applications.

Quantis Ultra Kleen features

With decades of experience applying Dodge gear products in the food and beverage industry, we have a unique understanding of the issues that impact your productivity. With a 3-year warranty, Ultra Kleen reducers offer an array of features that extend life in challenging conditions.

- AISI 304 series/EN 1.4301 stainless steel housing
- All stainless steel hardware
- Totally enclosed, no paths for contaminants in or oil out
- Factory-filled H1 USDA/FDA/NSF/EHEDG compliant food grade lubrication
- Laser etched nameplate
- 95% efficient

Product specifications

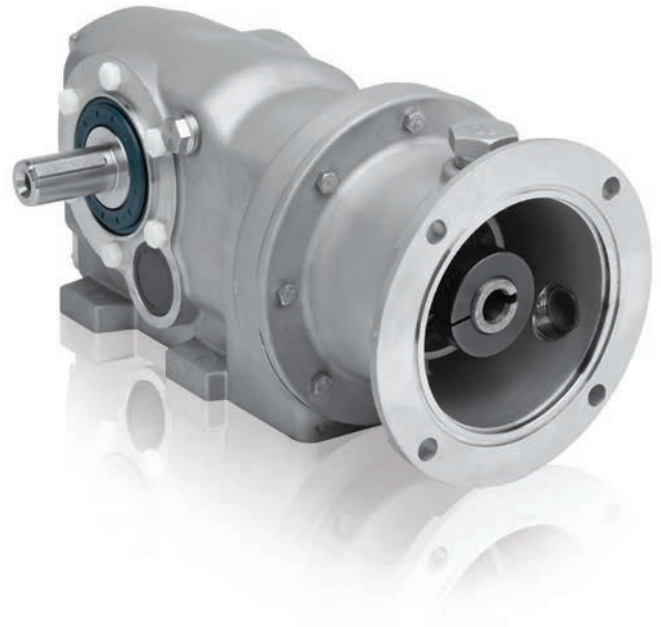
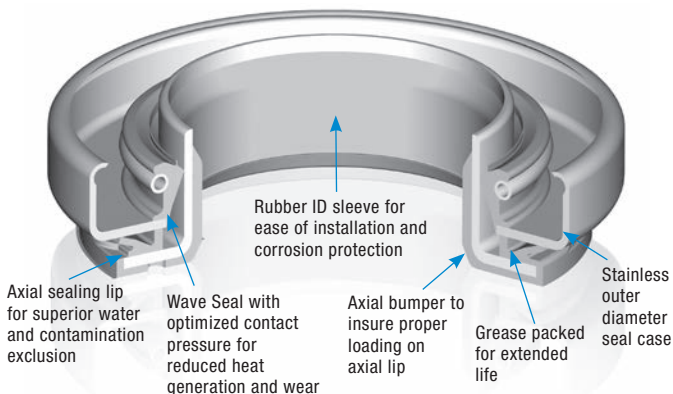
- Available in two case sizes up to 450 Nm output torque with ratios up to 179:1
- Available inputs include IEC B5 and NEMA C-face flanges
- Stainless steel metric or inch solid shaft, hollow bore or Q-Loc keyless output options
- Standard ambient temperature configurations from -4C to 41C (-25F to 106F) – expanded ranges available

Meets sanitary equipment design principles*

- Surface textures within 125 µ-inches
- Smooth, rounded surfaces to prevent water-pooling
- Withstands high pressure, high temperature washdowns

Premium sealing is standard

Quantis Ultra Kleen comes standard with two-piece harsh duty output seals that provide industry-leading protection against high pressure sprays, sanitizing solutions and abrasive materials.



IPX9K certified

The Dodge Quantis Ultra Kleen reducer has been tested and certified as water-tight under severe washdown conditions. The test requires that a product is sprayed from numerous angles and positions to ensure that liquids are prevented from entering the product.

- 100 bar high pressure spray
- 80°C (176°F) high temperature
- Sprayed at close range – 10 – 15 cm (4-6 in)



Dodge Ultra Kleen reducers have been tested and certified to meet IPX9K standards.

*2013 Sanitary Equipment Design Taskforce (ed.). 2014. Sanitary equipment design principles: checklist & glossary. AMI Foundations, Washington, D.C.

Quantis Ultra Kleen design features

Q-Loc keyless shaft attachment

Provides easy installation and removal, and allows for generous shaft tolerance requirements versus shrink disc or straight hollow bore.

Stainless mounting flange

Available with B14 or B5 dimensions.

Shank-style pinion gear

Offers extended ratio range.

Helical bevel gearing

High efficiency, case-carburized DIN 7 for superior strength.

NPT threaded plugs

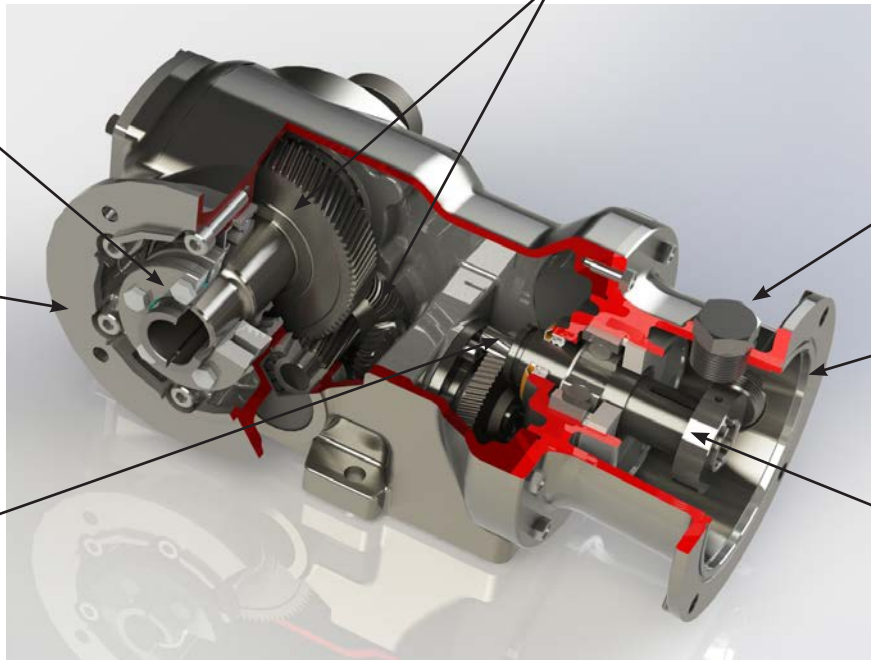
Provides secure and water-tight fit.

O-ring seal

Prevents water from entering the adapter.

Clamp collar input

Makes it easy to mount and dismount motor and eliminates fretting corrosion between the motor and the reducer.



9AKK106868 EN 05-2016

Quantis right angle helical bevel (RHB) ratings

Case size	IEC B5 input	NEMA input	Max input power (kW)	Max torque output (Nm)	Ratio range
38	71-100	56C-180TC	4.0	250	5.65 - 179.14
48	71-100	56C-180TC	6.5	450	7.22 - 169.53

Q-LOC keyless bushing kits

Bore	38	48
1.000 in	096390	096393
1.125 in	N/A	096394
1.250 in	N/A	096395
1.375 in	N/A	096396
1.438 in	N/A	096397

Straight hollow bore options

Bore	38	48
1.250 in	X	X
30 mm	X	N/A
1.375 in	N/A	X
35 mm	N/A	X

Solid shaft options

Diameter	38	48
1.000 in	X	N/A
25 mm	X	N/A
1.250 in	N/A	X
30 mm	N/A	X
1.375 in	X	N/A
35 mm	X	N/A
1.625 in	N/A	X
40 mm	N/A	X

For more information:

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